NEXT GENERATION COLLABORATION SERVICES PILOT (NGCS-P)

Brian Purdy
NGCS-P/DISA
March 9th, 2005

Overview

- Purpose
- Background
- Status
- Way Ahead

Purpose

The purpose of this information is to provide a current status of Next Generation Collaboration Services (NGCS) Pilot being conducted by DISA.

Background 1 of 2

The Next Generation Collaboration Services Pilot (NGCS-P)

- Procure a browser and application-based commercial collaboration service to support a 12-24 month Pilot
- Pilot Objectives
  - To determine the feasibility of employing managed services as one component of DoD's transformation to a netcentric environment.
  - To identify security and implementation barriers to the rapid deployment of solutions on multiple DoD networks.
  - To determine the suitablilty of commercial service offerings to meet DoD collaboration requirements.
  - To provide information/lessons learned to develop the Request for Proposal for release to industry in the fall of 2005.

Background 2 of 2

Summer 2004: RFQ released

- **5 vendors responded**

Source Selection Evaluation Panel Convenes

- **29 Oct 04--WebEx Communications Inc. Awarded Pilot Contract**

Vulnerability Assessment

- **DISA Field Security Office Assessed Service Offering**
- **Mitigation Strategy Developed**

16 Dec 04 -- Received ATO from GIG DAA

Status 1of 3

- Initial Requirements Derived From Several Documents
- JS critical requirements list, CIWG requirements list, NCES draft CDD, and the draft DJC2 requirements
- Capabilities provided under current contract:

Original "Six" Capabilities

Audio	X
Video	X
Chat	X
Persistent Shared File Space	NO *
Application Sharing	X
Whiteboard	X

Additional Desired Featur

Instant messaging	NO *
Auditorium "one to many"	X
Polling	X
Record session	X
File Transfer	X
Installation Automation	X
Use of DoD Certificates	X
Monitor Multiple Chat Session	X
Access Chat Logs	X

* On Development Roadmap 2005

Status 2 of 3

How is NGCS Different?

- **Established Service with 11,000+ Corporate Customers**
- **Different from Other Collaboration Tools**
  - **Allows Ad-hoc COI Participation**
  - **No Software Development**
  - **Infrastructure Already In Place**
- **No Cost to Pilot Participants**

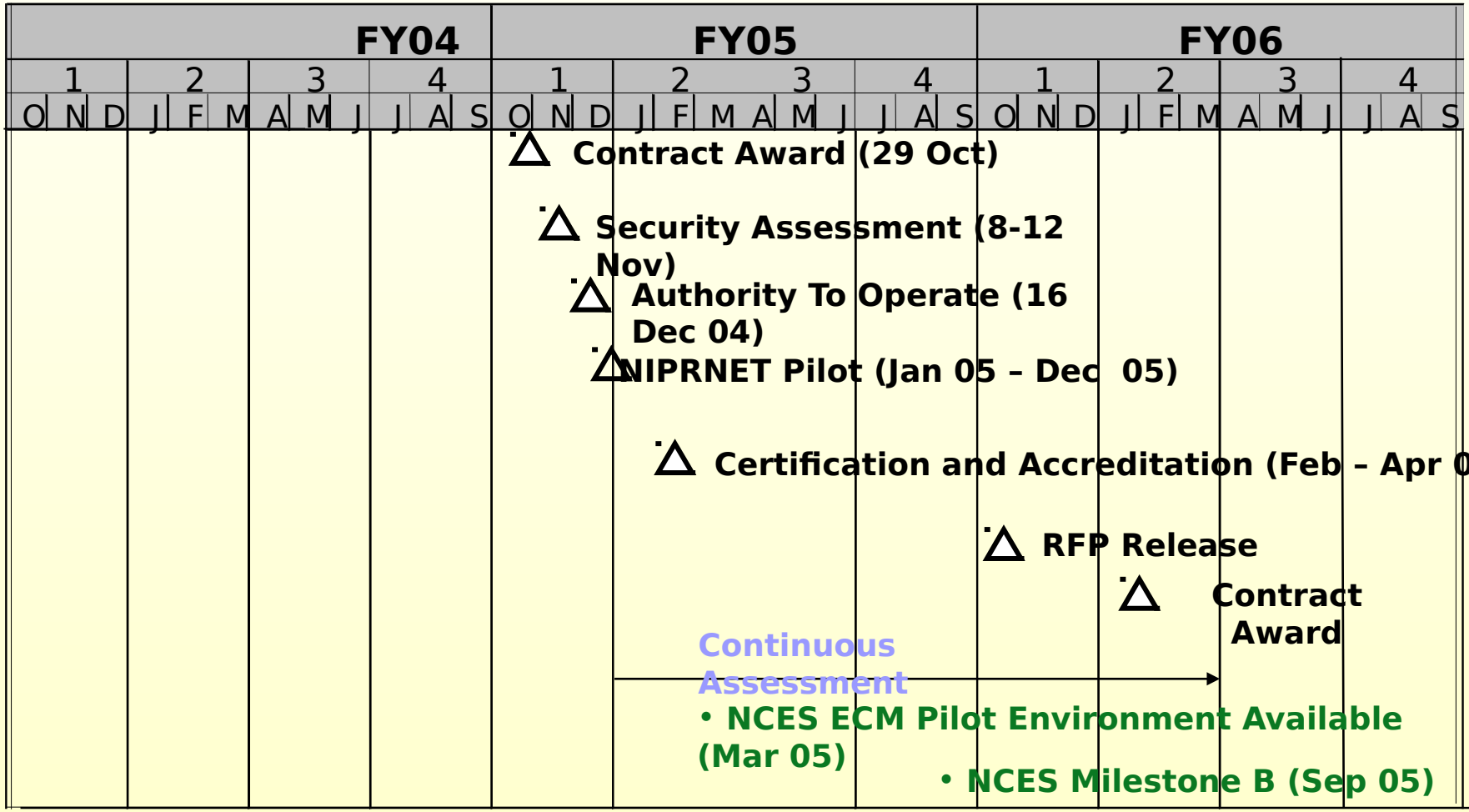
Status 3 of 3

Pilot Participation

- **GIG Enterprise Services Portal Serves as Identity Management**
  - **Requires CAC or Soft Cert to Host**
- **Purchased Service Supports 3000 Concurrent Users, Unlimited Total Accounts**
- **Tsunami Relief Effort**

Way Ahead 1 of 2

Implementation Schedule



Way Ahead 2 of 2

- Integration with other DoD identity management solutions
- Staged Events and Ad Hoc Usage
- Integration with Global NetOPS monitoring
- Documentation/Publication of Lessons Learned
- Automated Surveys for Customer Feedback
- Metrics Collection

Enterprise-Level Service Lessons Learned IS Pilot Success

Conclusion

Backup Slides

GES PORTAL

The Warfighter's Gateway to Secure Collaboration

Registered Members: Find IM **MySite** Tutorials **Workspaces**

Un-Registered Members: About GIG ES Contact Us **Registration** Registration-**Help**
How to Obtain DOD PKI Client Certificates Security Notice

GES Notice

Last revised by GES_Support@disa.mil 11/11/2004. To help ensure we receive and can respond to your e-mail, please set up your mail preferences to accurately identify your e-mail address.

GES Portal - Home - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address https://gesportal.dod.mil/default.aspx Go Links

GES PORTAL

My Site Help

Home Find Workspaces Tutorials IM NGCS-P Contact Us Logout

All sources

GES Portal

Home

Actions

Done Internet

Start Inbox ... Windo... Docu... Webe... FW: ... Micros... GES P... Ges P... 12:46 PM

Home - NGCS-P - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address https://gesportal.dod.mil/sites/NGCSP/default.aspx Go Links

Home Documents and Lists Create Site Settings Help Tutorials MySite Up to GES Portal

NGCS-P

NGCS Pilot Home

- Documents
  - Overview Information
  - Invite Users
  - Technical Information
  - Quick Reference Guides
  - Software
- Pictures
  - Screenshots
- Lists
  - Announcements
  - Register with NGCS
- Discussions
  - NGCS-P Discussion
- Surveys
  - Initial User Survey
  - Continuous Feedback

Welcome to the NGCS Pilot Site!

Thank you for your interest in the **Next Generation Collaboration Services (NGCS) Pilot**. The unclassified service, accessible via a web-browser, provides you, the user, the ability to collaborate in real time with remote co-workers, deliver presentations, view, edit and graphically annotate documents, and share applications or even your entire desktop. This service is easy to use, reliable and scaleable, and accessible from any computer with a connection to the Internet or NIPRNet.

A SIPRNet-based service (anticipated in late Summer 2005) will have a different registration process and information will be provided when services are available.

For more information or to participate, please contact Tracy Terwilliger (see POCs to the right).

WebEx Logon

Host Meeting | Host Event | My Webex

Announcements--Click Here to View All Announcements

ATO Signed

The Authority to Operate (ATO) has been awarded to NGCS which enables us to officially offer the service! As soon as our internal testing is complete you can expect to see the service on this site.

NGCS-P Is Live!

We proudly announce the start of the NGCS Pilot. You may click on the buttons underneath WebEx Logon to launch the service. Please visit http://tpr.webex.com/mk/get/dod_cb_reg to sign

Points of Contact

TRACY TERWILLIGER

NGCS Project Lead

Tracy Terwilliger is the team lead for the NGCS effort. Please contact her for all general NGCS questions or to inquire about participation in NGCS.

KARL KURZ

NGCS Chief Engineer

Major Karl Kurz, USA, is the chief engineer for NGCS and handles all technical aspects of the effort.

VONDA MCLEAN

NGCS Security Engineer

Major Vonda McLean, USAF, is leading the Certification and Accreditation efforts associated with NGCS. Please feel free to call her with any questions pertaining to NGCS security.

LT Benjamin Brandt

NGCS Engineer

LT Ben Brandt, USN, coordinates NGCS events, testing & evaluation (T & E), training, and portal interface. Please feel free to contact him for assistance on any of these topics.

Links

- Sign Up for JumpStart Training

https://gesportal.dod.mil/sites/ngcsp/Lists/Announcements/DispForm.aspx?ID=1 Internet

Start | Sent Items - Microsoft... | NGCS | Program Implementati... | Home - NGCS-P - Mi... | 12:24 PM

WebEx Meeting Manager - CIWG Demo

File Edit Share View Tools Participant Meeting Help

10 of 20: Next Gener

Info DCTS-21SE...

UNCLASSIFIED

Next Generation Collaboration Services (NGCS)

UNCLASSIFIED

For teleconference information,click information on Meeting menu

Connected

Participants Polling Video

Participants: 3 of 3 ready.

Bubba Smith (Host)

Jane Doe

John Doe

Presenter Mute

Chat Notes

from Bubba Smith to All Participants
Welcome to today's presentation about Next Generation Collaboration Services

from Bubba Smith to All Participants
I hope you find this demonstration both useful and interesting

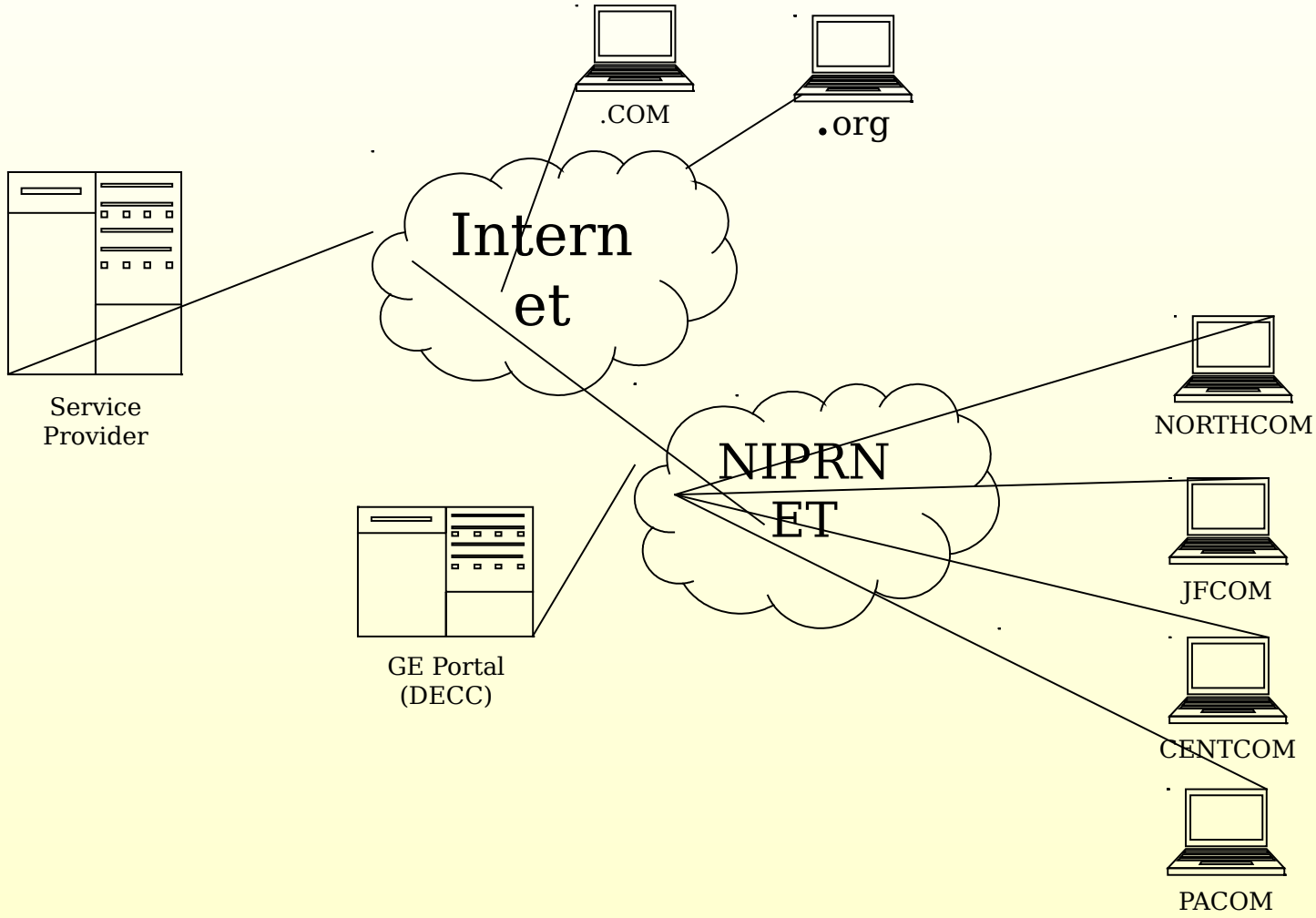
from Jane Doe to Host(privately)
I would like to know how to become a participant in the NGCS Pilot

from Bubba Smith to All Participants
If you would like inquire into becoming a member of the NGCS Pilot, call the NCES Collaboration Branch Manager, Tracy Terwilliger at (703)882-1217

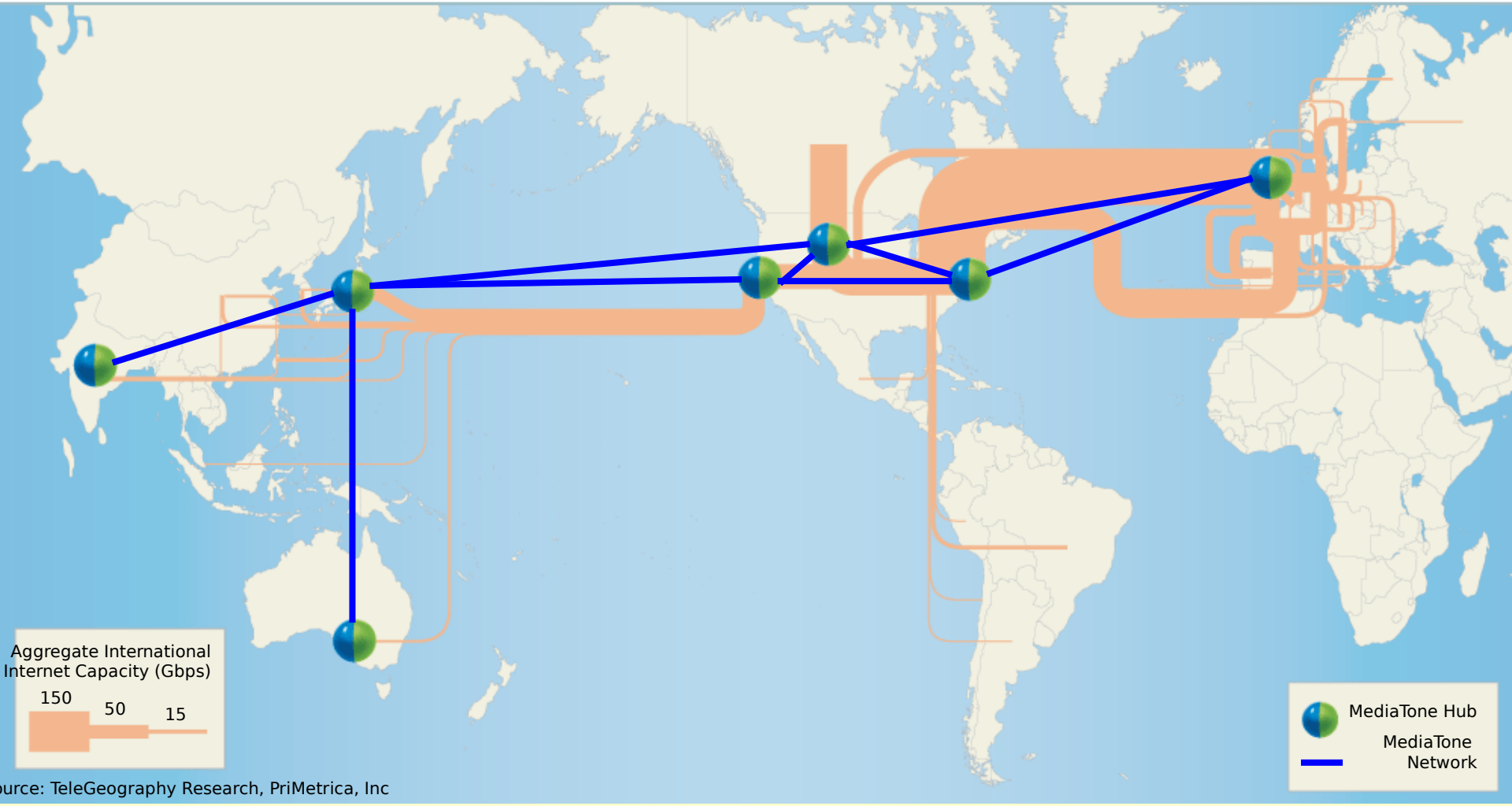
Send to: All Participants Send

POWERED BY WebEx

NGCS Concept Sketch

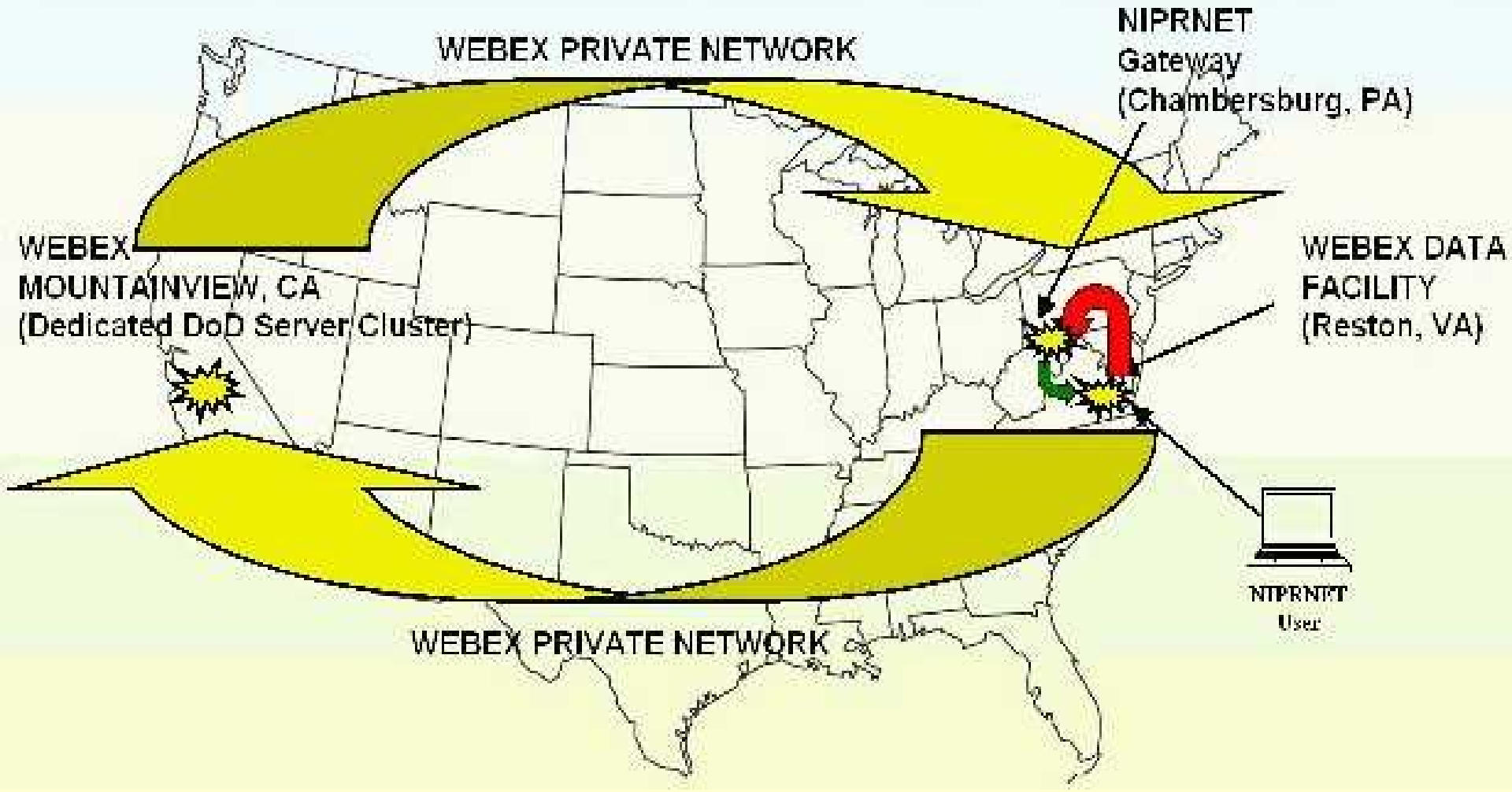


WebEx Private Network



ource: TeleGeography Research, PriMetrica, Inc

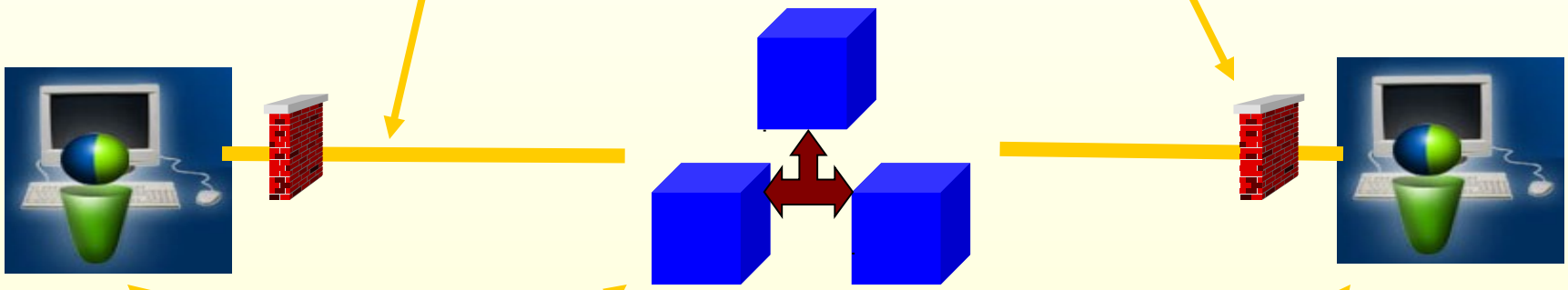
WebEx Meeting Data Path



Security

Secure Transmission
- No clear text or HTML
- End-to-end SSL encryption

Secure Firewalls
- Firewall Friendly
- No need to open any special ports



Secure Information
- All information switched
- No information uploaded on WebEx servers
- No “crumbs” left on clients

Secure Sessions
- Password
- Visible identity
- Lock/unlock
- Eject
- Unlisted

Network Impact

- Ports And Protocols
  - TCP Port 443 (SSL)
  - HTTPS Protocol
- Bandwidth Usage
  - All services except video can be provided over 56Kbs dial-up connection
  - Bandwidth Whitepaper available on GES Portal
- Latency
  - Tested with USAF users in Iraq and Bosnia, including Voice
  - Tested between USNS Mercy and USS Abraham Lincoln
- Lessons Learned:
  - Proxy Servers: Must not cache webex.com
  - Application Firewall: Must allow StoneHttpAgent
  - Java 1.1 or newer is required for Windows machines; 1.3 or later on other platforms`

System Impact

- Java Virtual Machine (v1.3 or newer) required
- System Admin privileges not required in most implementations
- Supports dial-up connections
- Software updates automatically rolled out to most users (mobile code)

User Impact

- Automatic Account Provisioning:
  - Pilot uses existing DoD identity management system(s)
    - Current - hosts must have GES Portal Account
    - Future - DISA negotiating with major DoD portals to include identity management systems from across DoD (AKO, NKO, etc)
  - Individual accounts are unlimited; Concurrent cannot exceed 3K
- Relatively low system requirements/user privileges
- Cross-domain (NIPR/Internet) capability
- User accounts required only for meeting organizers
- Ad-hoc collaboration